



## User's Guide to the **FHP3P05** PON Power Meter



www.grandwaytelecom.com

## Specifications

Connector Type	FC/PC SC/PC		
Measurement Range	1270/1310nm	1490nm	1550/1577nm
(Continuous Datastream)	-40dBm~+10dBm	-50dBm~+15dBm	-50dBm~+20dBm
Burst Measurement Range (1270/1310nm bursted signal)	-30dBm~+10dBm		
Spectral Passband	1270/1310nm	1490nm	1550/1577nm
	1240nm~1360nm	1480nm~1500nm	1539nm~1610nm
Insertion Loss	1.5dB		
Accuracy	±0.5dB		
Linearity	±0.2dB		
Data Storage	1000Sets		
Display	2.8 inch TFT LCD		
Refresh Rate of Display	2.5Hz		
Threshold	10 sets(configured via PC-based software)		
Auto Power-off	Yes		
Number of Ports	2(1 for ONU,1 for OLT&.Video)		
Operating Temperature	-10 to +50°C		
Relative Humidity	0%~95%,non-condensing		
Power Supply	1.2V*4pcs Ni-MH AA;5V AC/DC Adapter		
Battery life	>20 hours		
Dimension	190mm*105mm*55mm(L*W*H)		
Net Weight	700g		

NOTE: ①Valid at 1550nm,CW,23±3°C,Relative Humidity≤70%,with an FC connector.

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## Introduction

FHP3P05 is a portable, high quality PON optical power meter. It is specifically designed to meet the rapid growth of FTTx market with PON (Passive Optical Network) technologies. It is capable to measure all five signals (1270nm, 1310nm, 1490nm, 1550nm and 1577nm) that carry voice, data and video, so-called triple-play applications along a single fiber. FHP3P05 can measure not only 1490/1577nm and 1550nm optical signal, but also accurately detect and measure the upstream burst at 1270/1310nm sent from an ONU while the ONU is in the idle mode. The simple operation and accurate measurement make FHP3P05 become an ideal tool for PON (suitable for APON, BPON, EPON, GPON and 10G PON application) installation/acceptance test to ensure that they meet required standards, and service activation and troubleshooting.



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## Operation

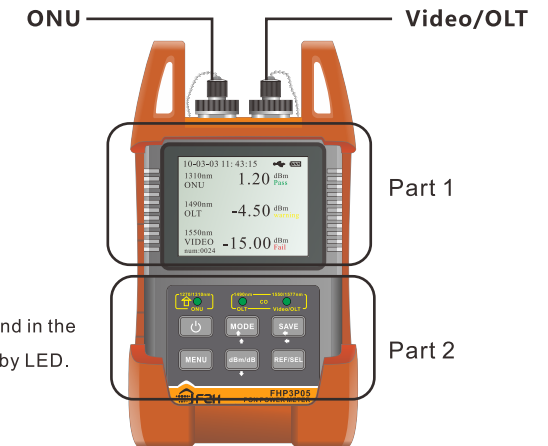
The front panel is divided to two parts:

Part I – LCD Display

Part II- Key Matrix







The tester shows test result on LCD screen, and in the meanwhile indicates different status in part 2 by LED.

Tester connector types: FC/PC,SC/PC



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## Key's Functions

	<b>Power Switch</b> – Hold(>2s):Switch unit on and off Press: Control Auto-off
	<b>SAVE</b> -Hold: Save current data Press:Left in menu mode, switch wavelength in threshold mode
	<b>MENU</b> - Hold: Enter the menu Press: Switch wavelength, return to the upper menu or the main interface in non-main interface
	<b>Mode Key</b> – Activate/deactive F/P mode Up in the menu mode
	<b>dBm/dB</b> – Switch measurement unit Down in menu mode
	<b>REF/SEL</b> – Hold: Set current data as REF Press:Display REF OK in menu mode

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## Advice

- 1)Please use the dust-proof cap to secure the connector to be scratched or contaminated everytime when the product is not in operation.
- 2)Make sure that the operating voltage of the AC adapter/charger is the same as the local AC line voltage.
- 3)Please always stay the optical connectors away from oil, dirt and other contamination to ensure the proper operation,
- 4)Always be careful when you are intend to plug in and pull out the connectors because optical interface is extremely sensitive.

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## Remarks

- 1.When battery power is not enough, the battery indicator will flash. Please immediately use the attached AC/DC adapter or charge the instrument/battery.
2. After the battery gauge shows “full”, means the battery is fully charged, remove the charger.
- 3.Before charging the instrument, please make sure the rechargeable battery pack is installed.
- 4.If do not use the instrument for long time, please remove the battery pack to avoid battery decompotion.
- 5.Due to existence of strong interference in some working environment, sometime short lines or disorder may appear on LCD screen, this is normal and not going to affect the instrument. The display will back to normal if reboot the unit or switch menu to refresh the display.

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**MANUAL**



**SOFTWARE**



 +86-21-54451260/61/62/63  
 +86-21-54451266  
 overseas@grandway.com.cn  
 www.grandwaytelecom.com  
 6FXin'an building No.99 Tianzhou Road Shanghai,200233 P.R.China